

FIG. 2

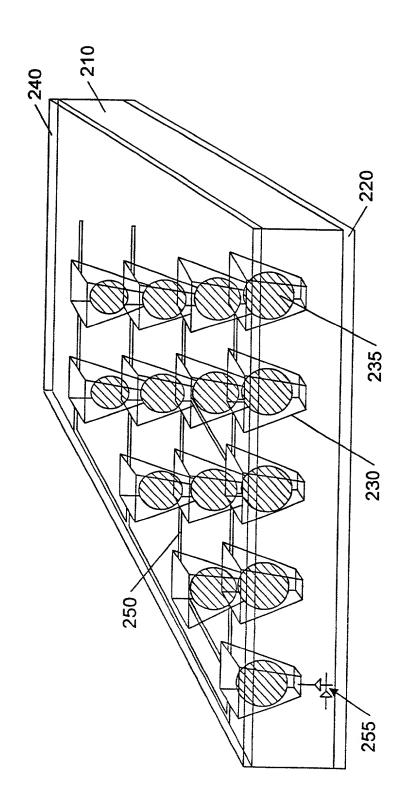


FIG. 3

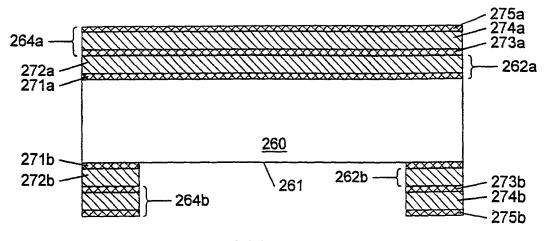


FIG. 4A

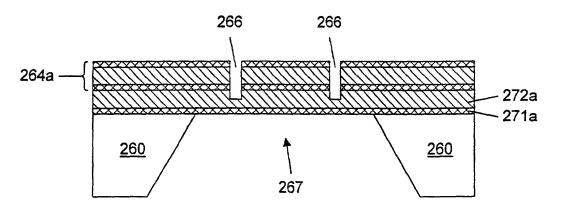


FIG. 4B

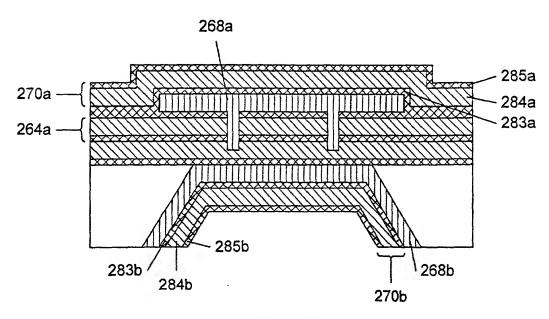
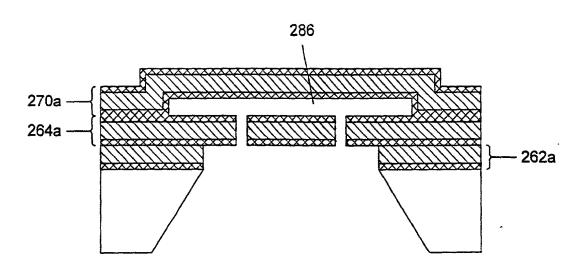


FIG. 4C



5/69

FIG. 4D

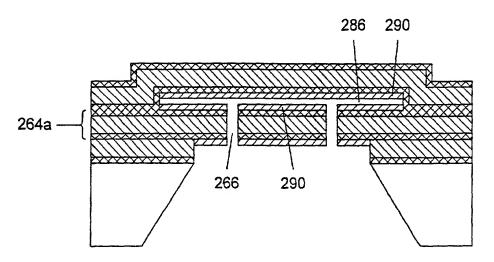


FIG. 4E

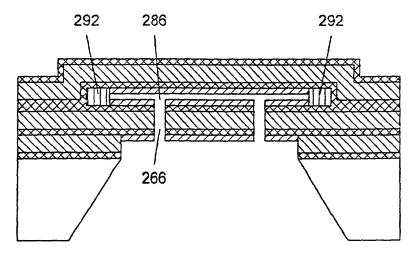
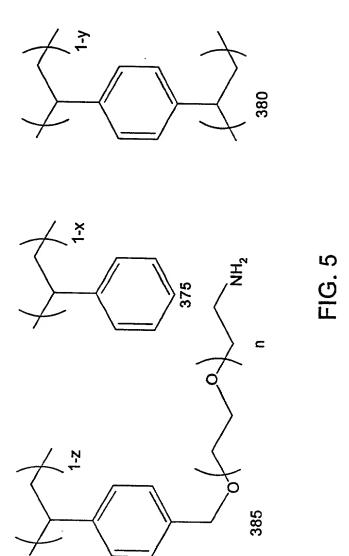


FIG. 4F



o-cresolphthalein complexone

-1G. 6

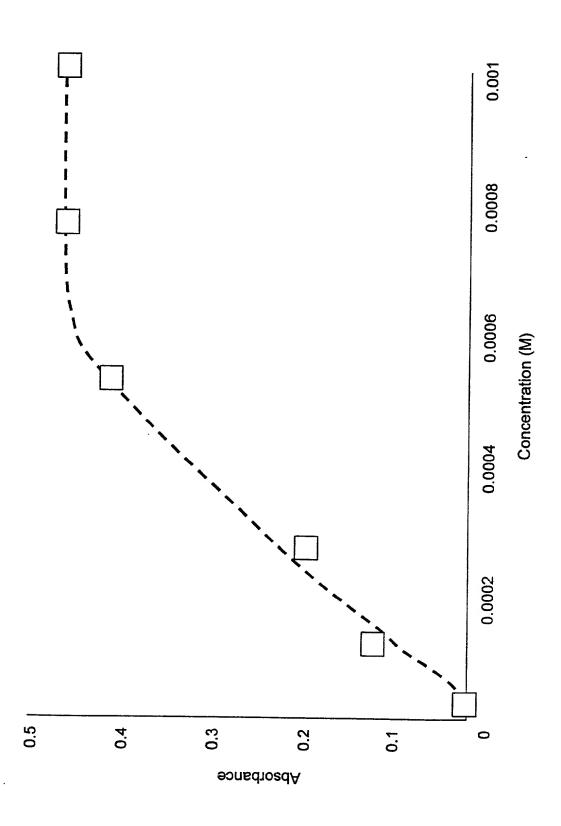
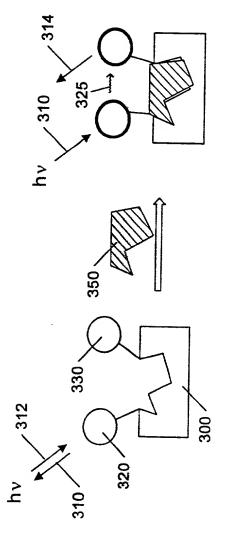


FIG. 7



. G. 8

FIG. 9

Peptides

Nucleotides

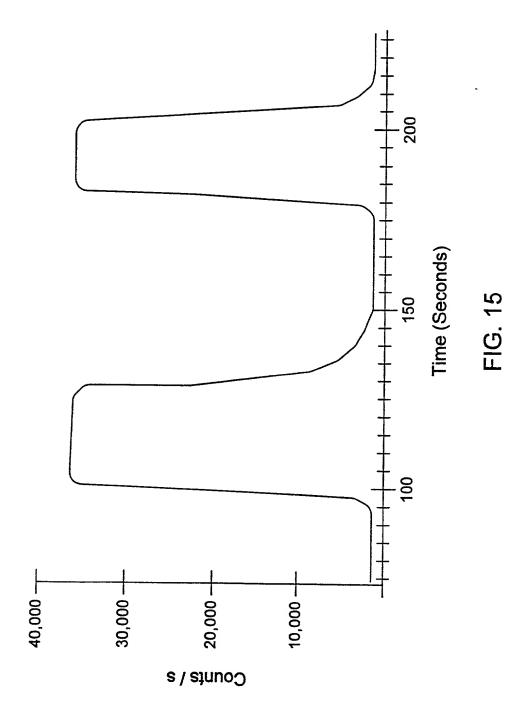
FIG. 11

FIG. 12

FIG. 13

$$H_2N$$
 H_2N
 H_2N

FIG. 14



17/69

	RESIN:	Blank	Alizarin	o-Cresol-	Fluorescein	Alizarin-Ce ³⁺
рH	lon			phthalein		complex
2	none	R K	R G B	R G B	R G B Z	R G
2	Ca ²⁺	R G B	R G S B	R G B	R G B	R G B
7	none	R G B	R 7 G XX B	R G B	R S B	R G B
7	Ca ²⁺	R G B	R G B	R () B	R G B	R G B
7	F -	R G B	R G B	R G B	R G B	R G B
12	none	R G B	R G B	R G B	R G B	R G B
12	Ca ²⁺	R G S B	R G B	R G W B	R G B	R G B
12	F -	R G B	R G B	R G B	R G B	R G B

FIG. 16

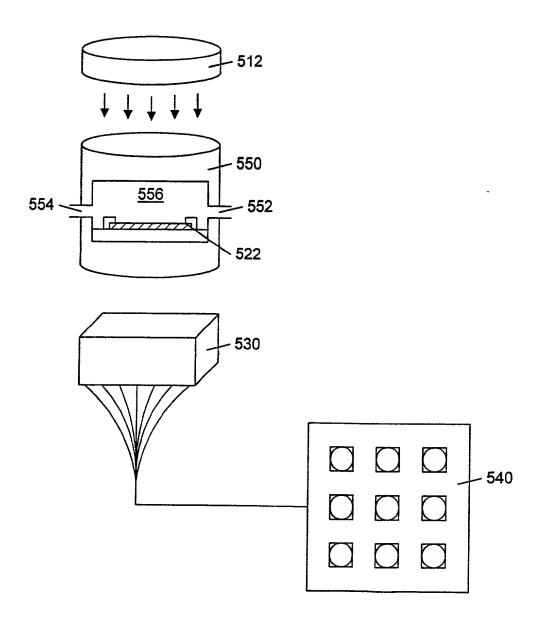


FIG. 17

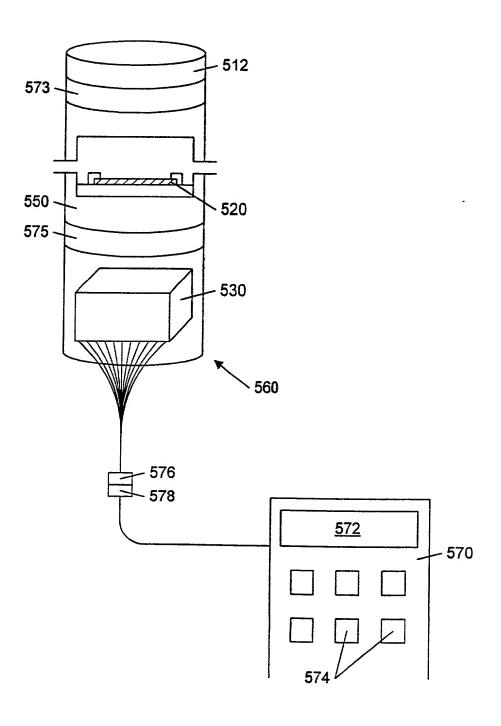


FIG. 18

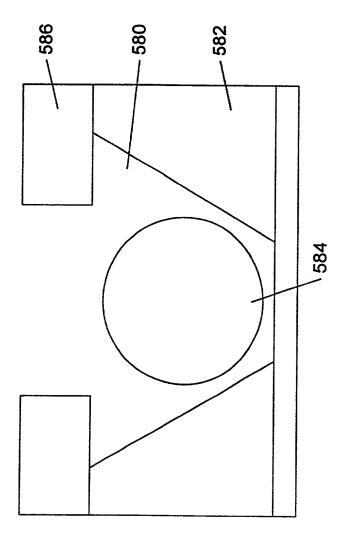


FIG. 19

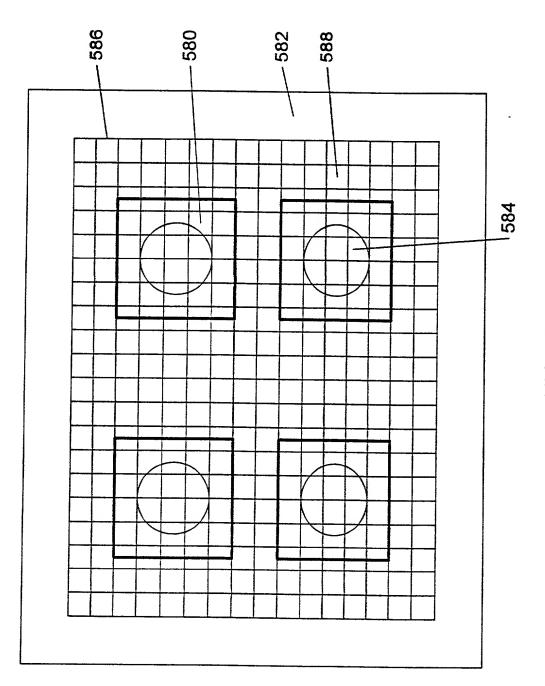


FIG. 20

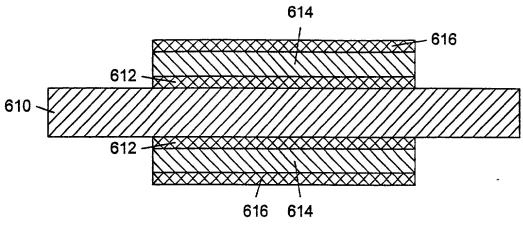


FIG. 21A

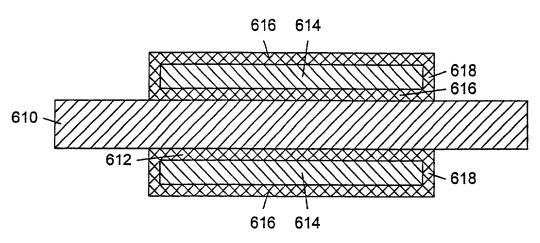


FIG. 21B

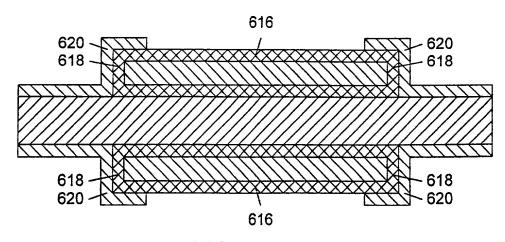


FIG. 21C

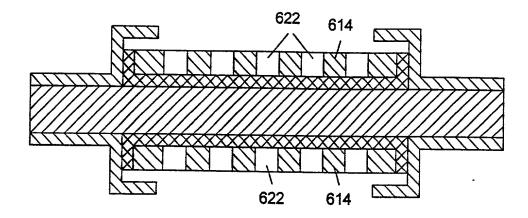
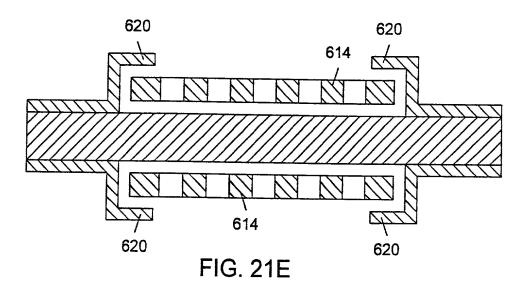


FIG. 21D



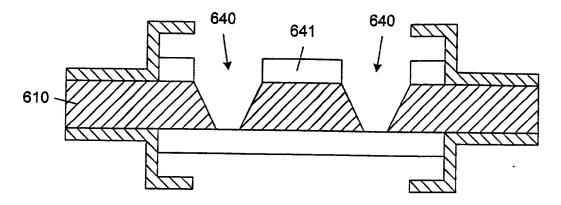


FIG. 21F

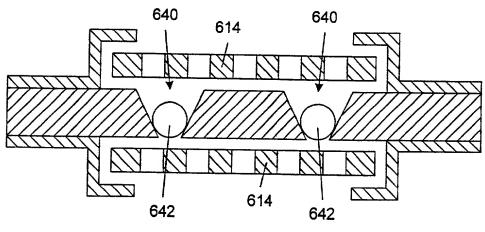
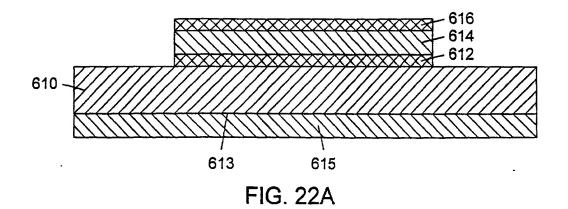


FIG. 21G



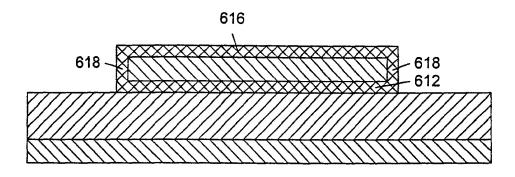


FIG. 22B

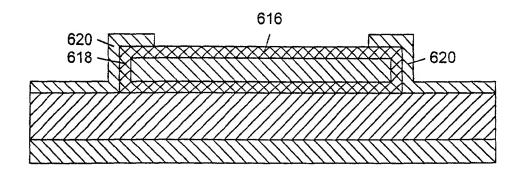
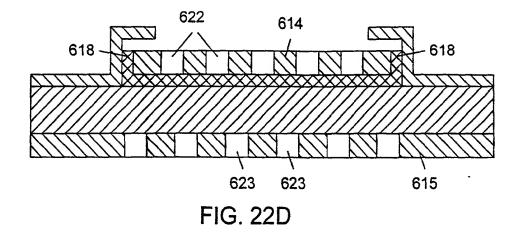


FIG. 22C



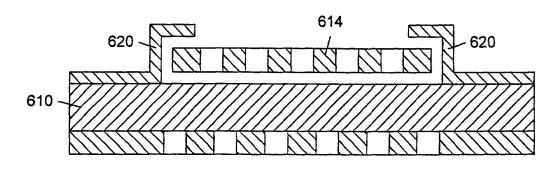


FIG. 22E

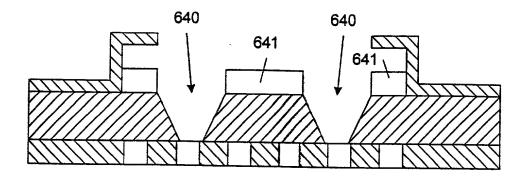


FIG. 22F

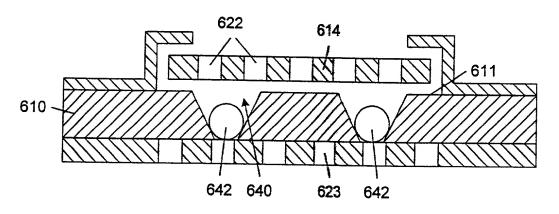


FIG. 22G

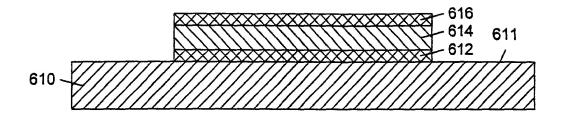


FIG. 23A

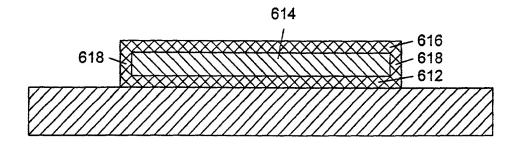


FIG. 23B

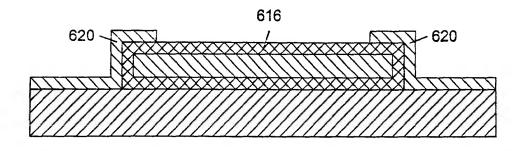


FIG. 23C

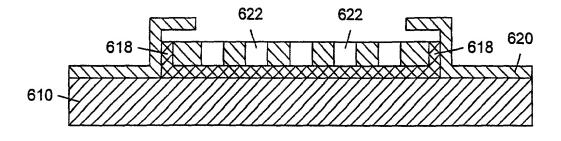


FIG. 23D

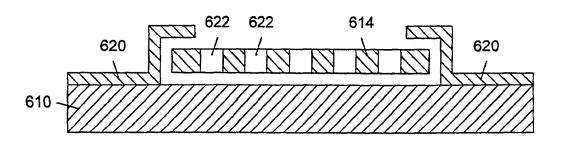


FIG. 23E

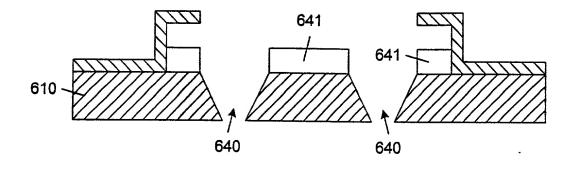


FIG. 23F

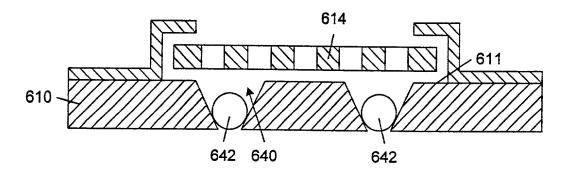
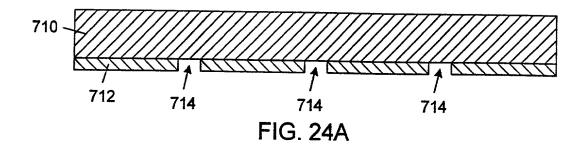


FIG. 23G



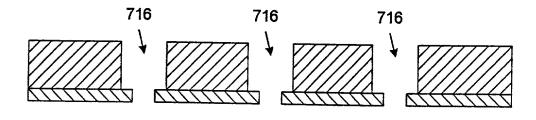
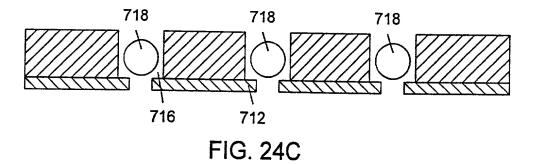
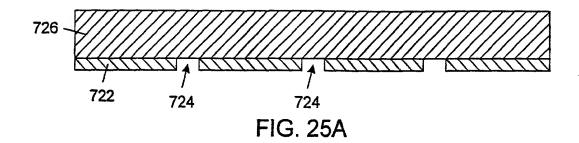


FIG. 24B



710 719 717 720

FIG. 24D



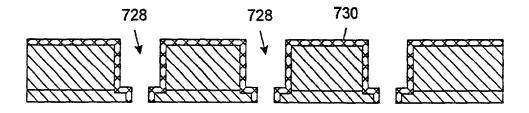
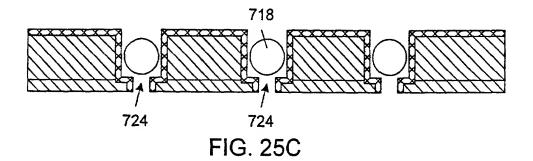


FIG. 25B



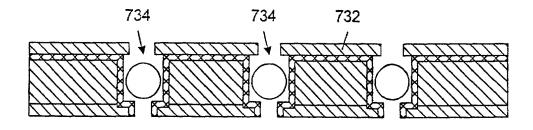


FIG. 25D

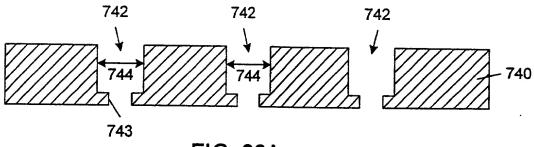


FIG. 26A

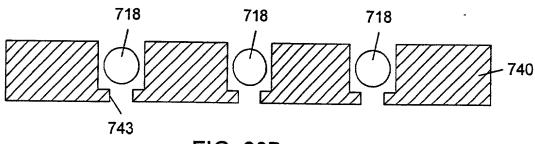


FIG. 26B

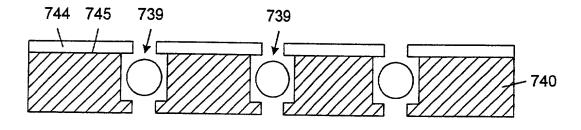
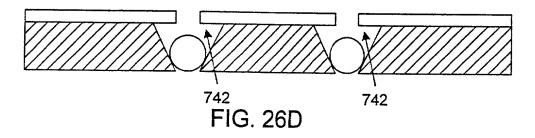


FIG. 26C



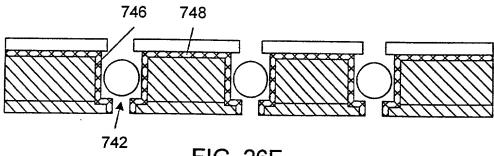


FIG. 26E

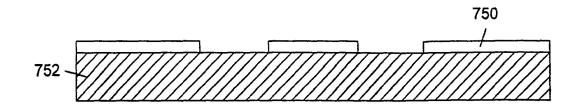


FIG. 27A

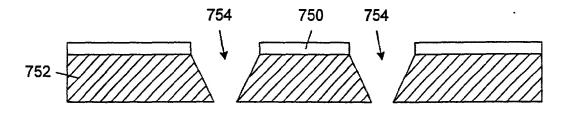


FIG. 27B

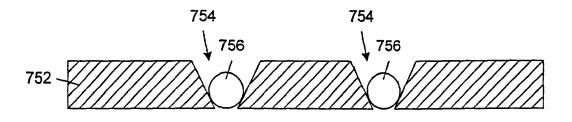
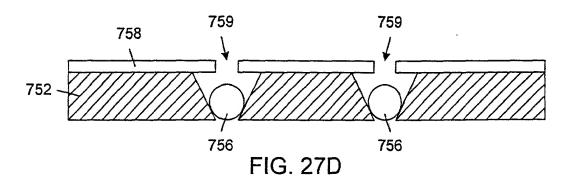


FIG. 27C



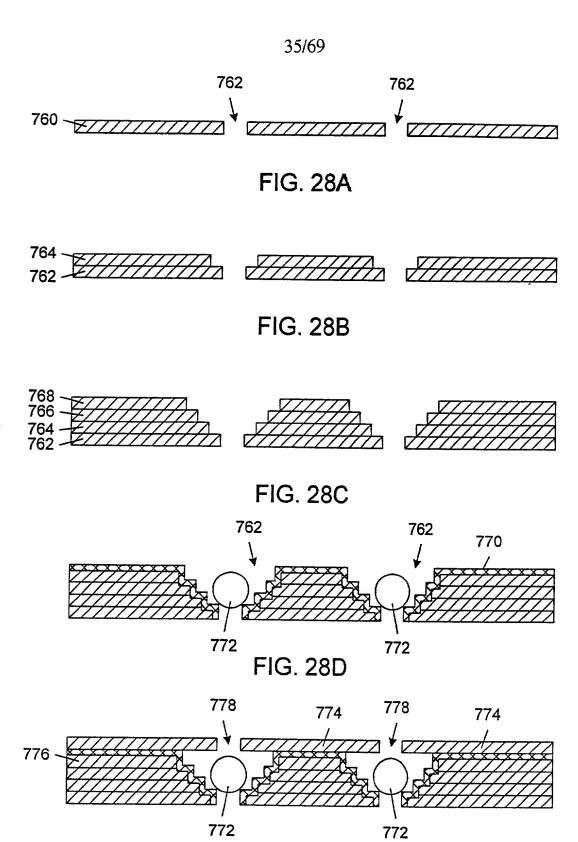
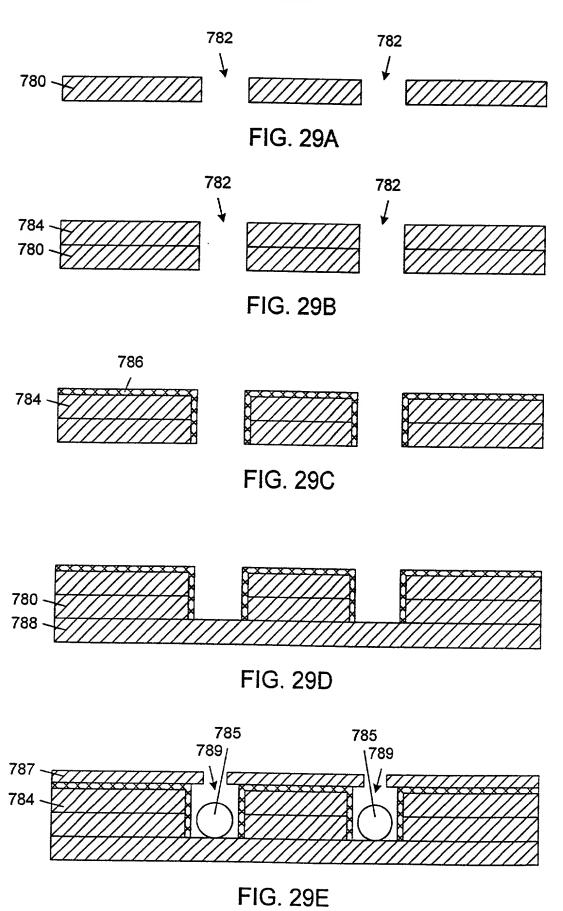


FIG. 28E



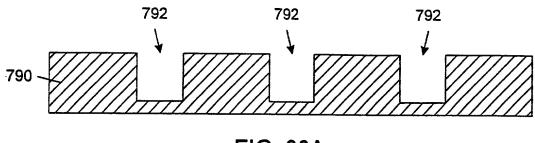
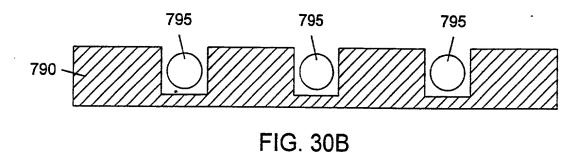
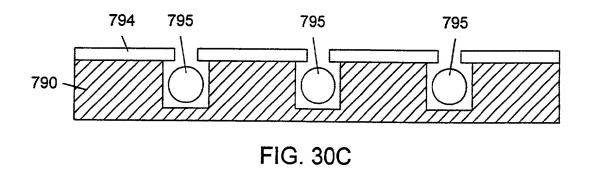


FIG. 30A





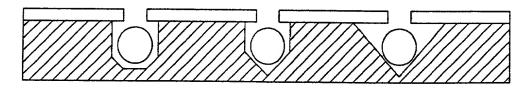


FIG. 30D

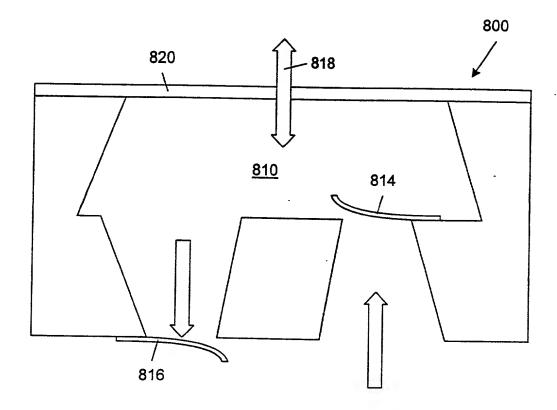


FIG. 31

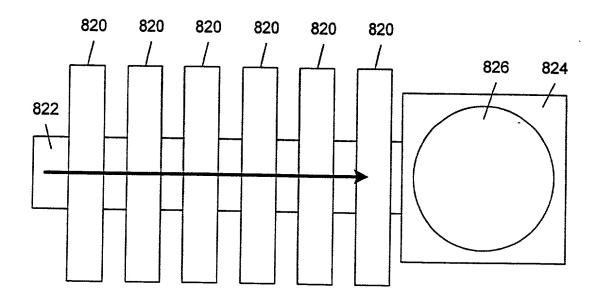


FIG. 32

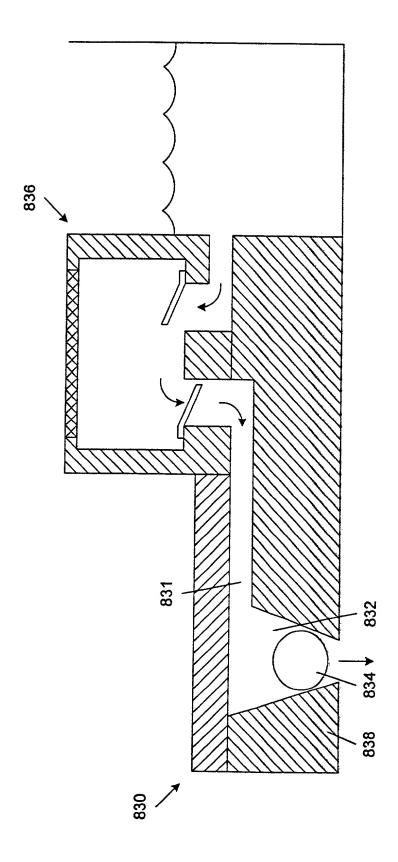
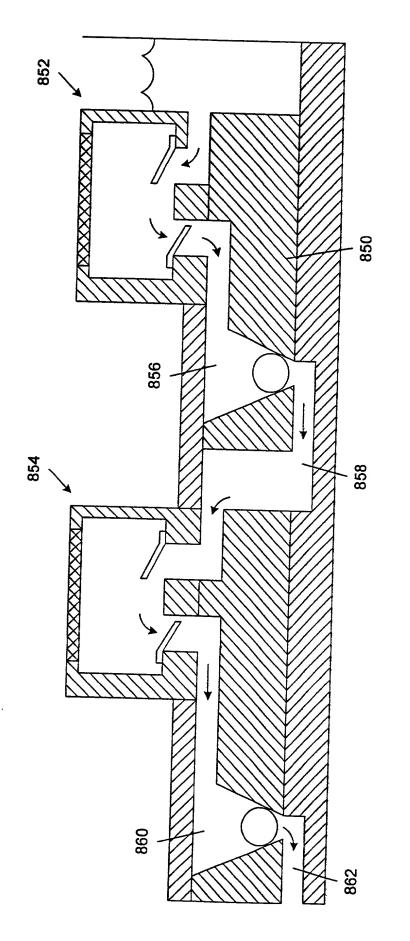


FIG. 33

FIG. 34

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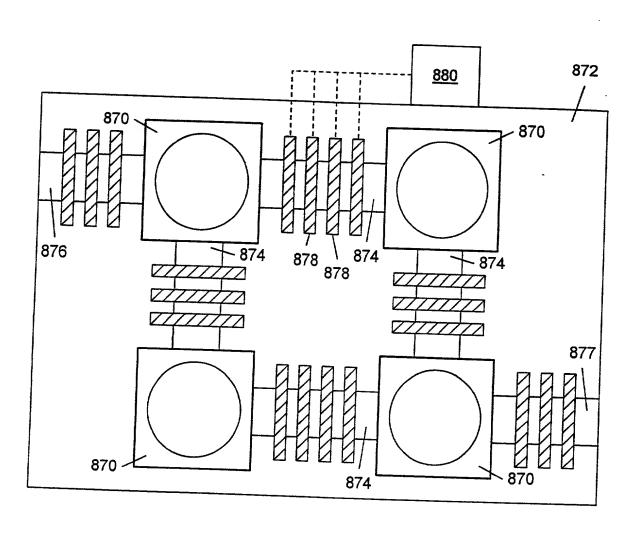
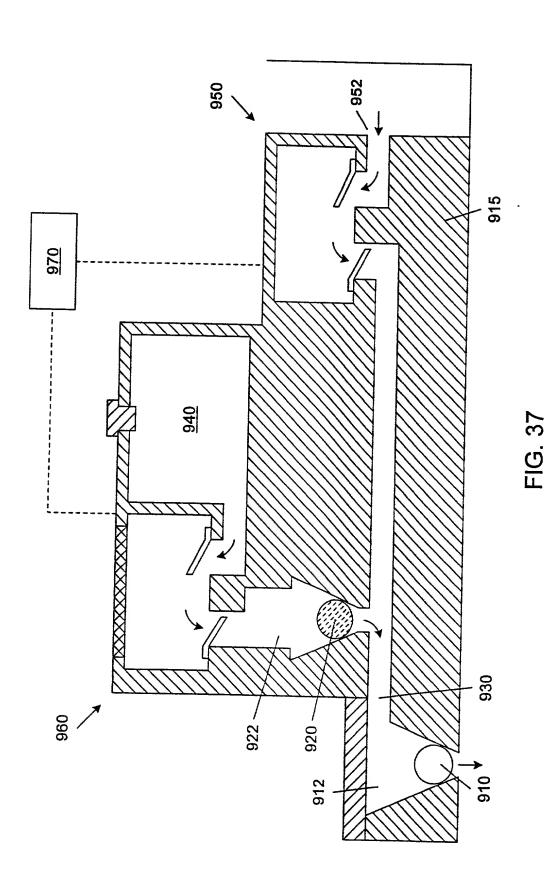
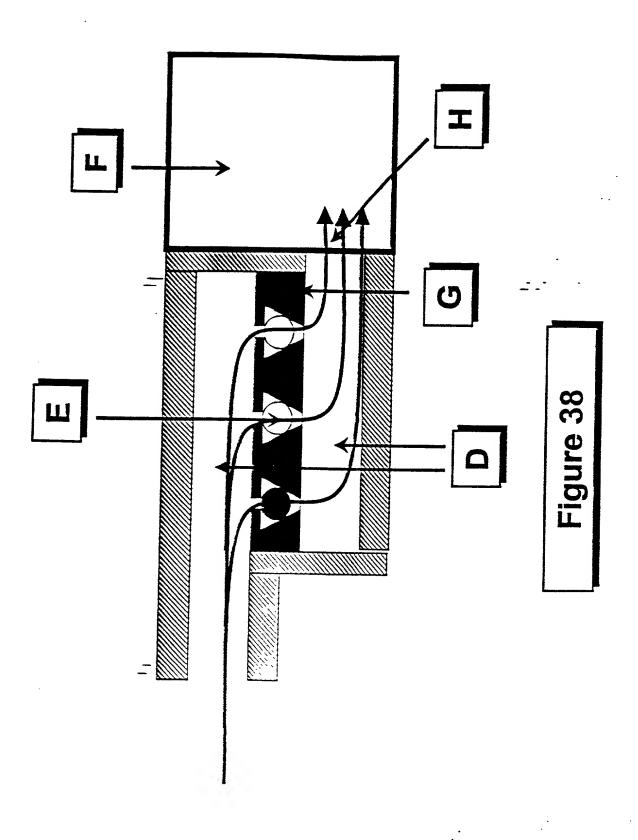
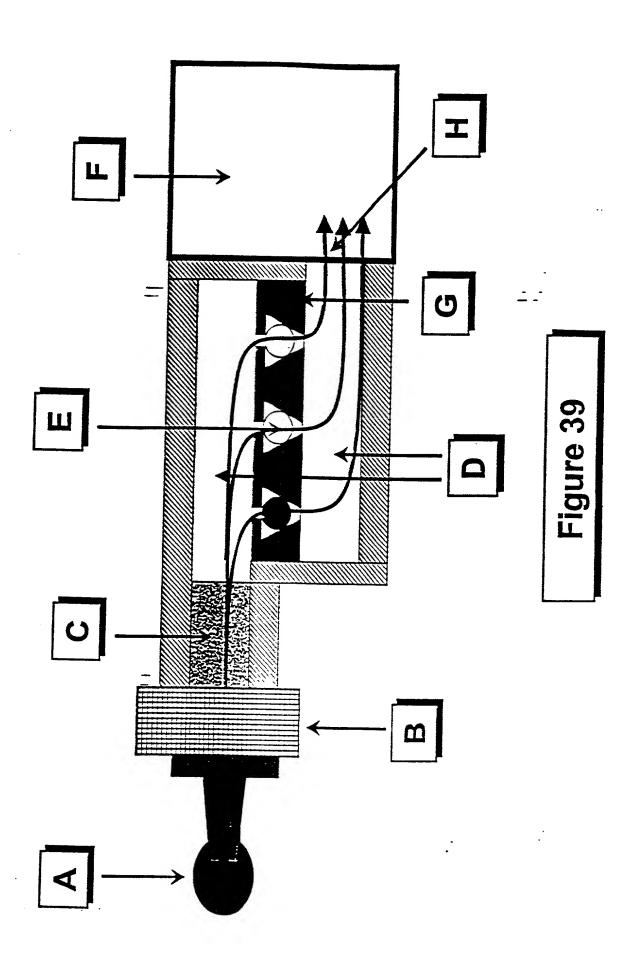
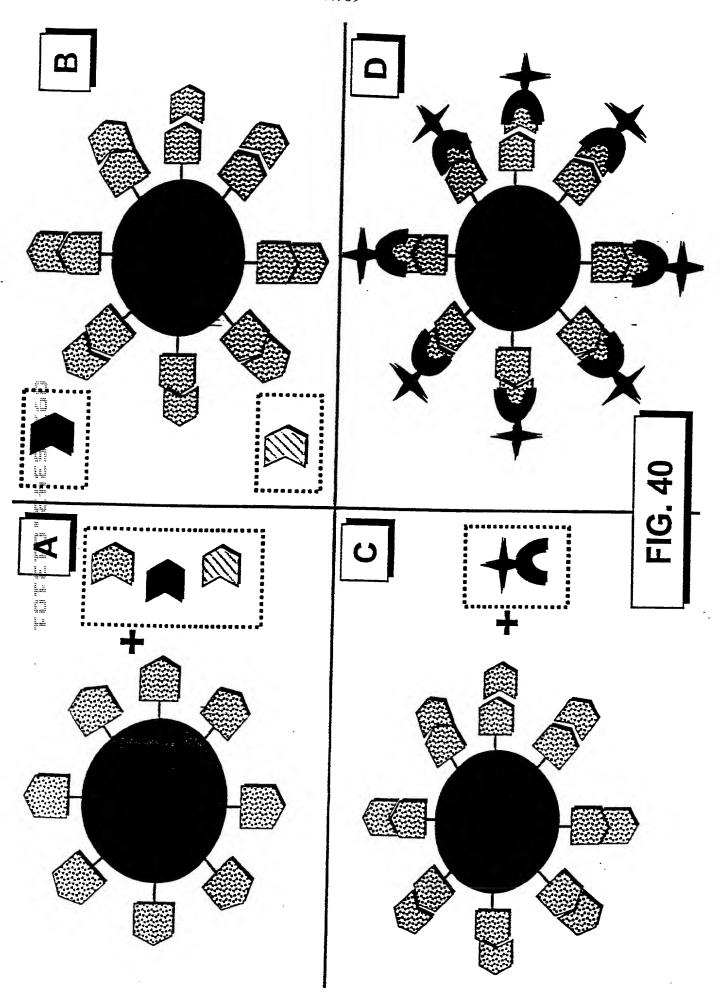


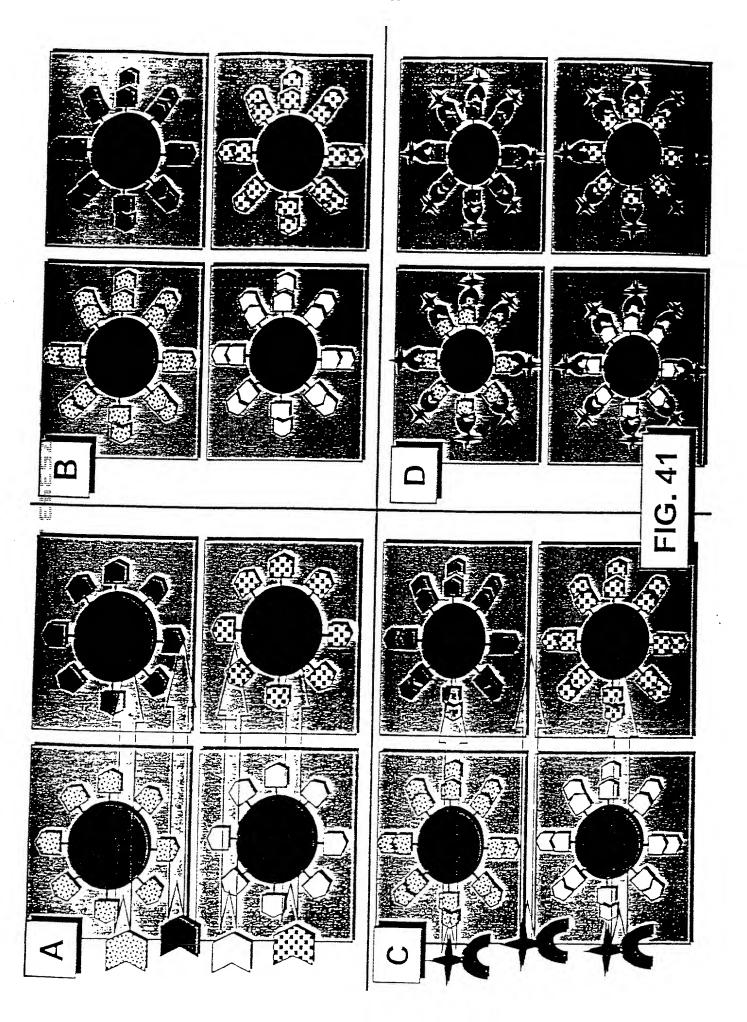
FIG. 36





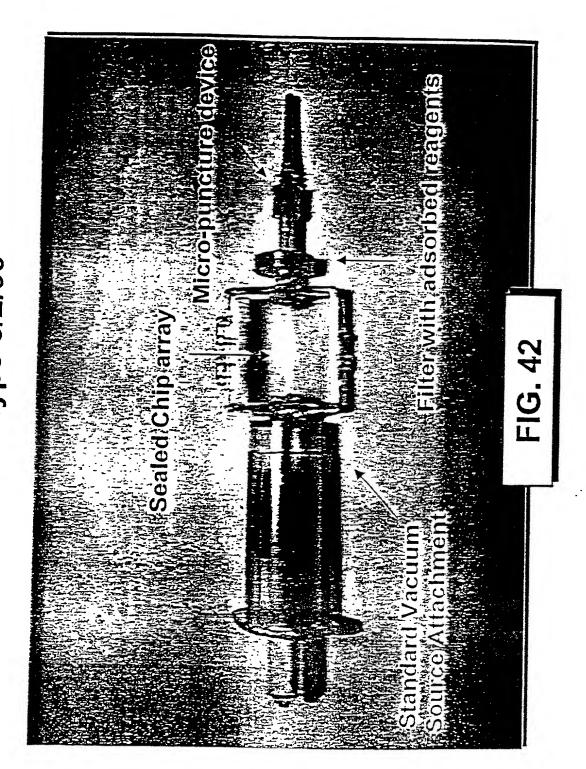


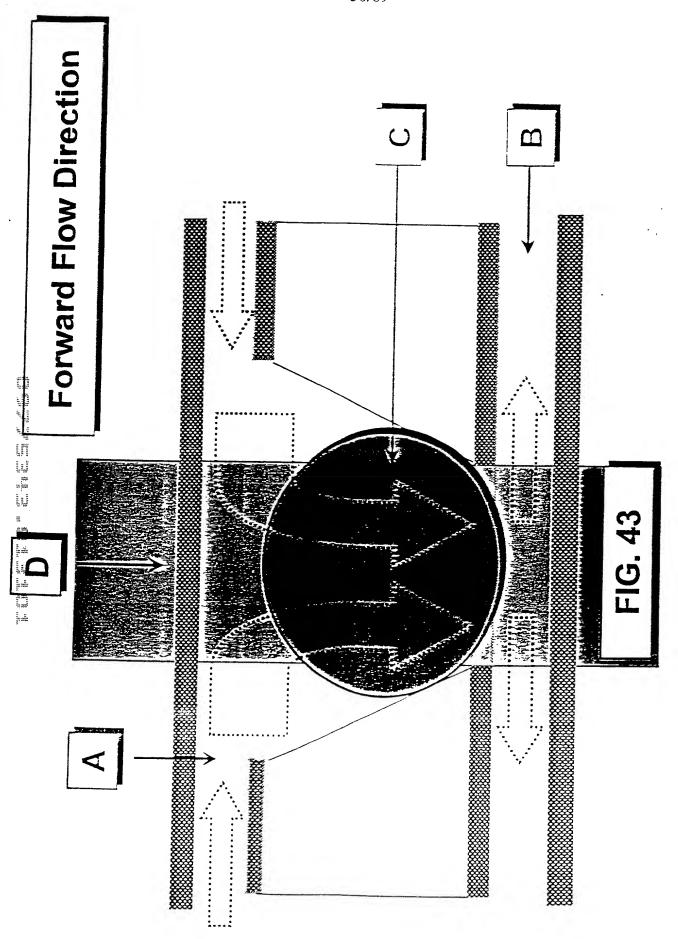


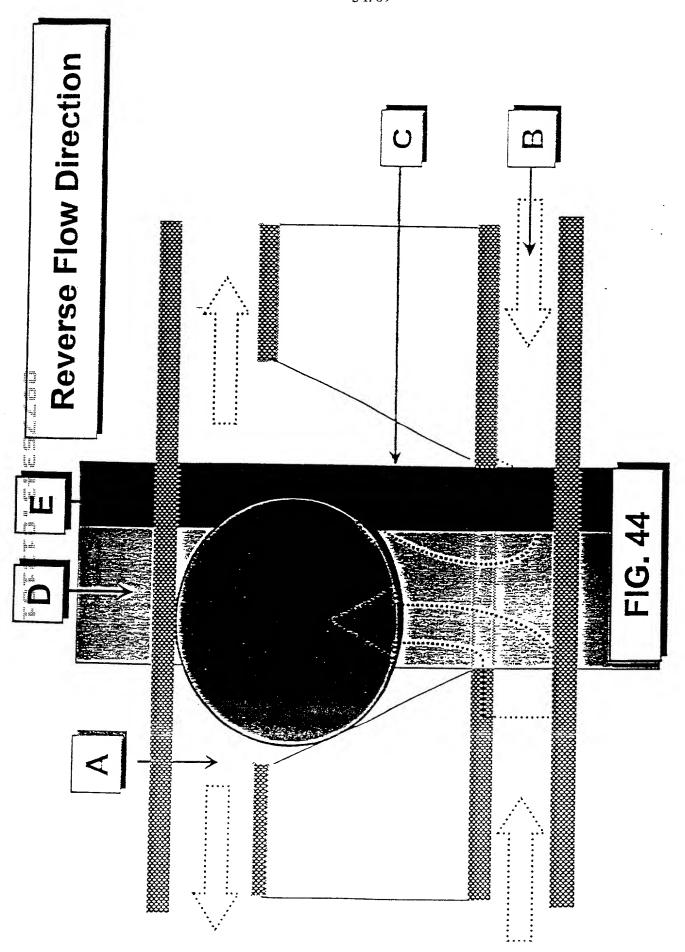


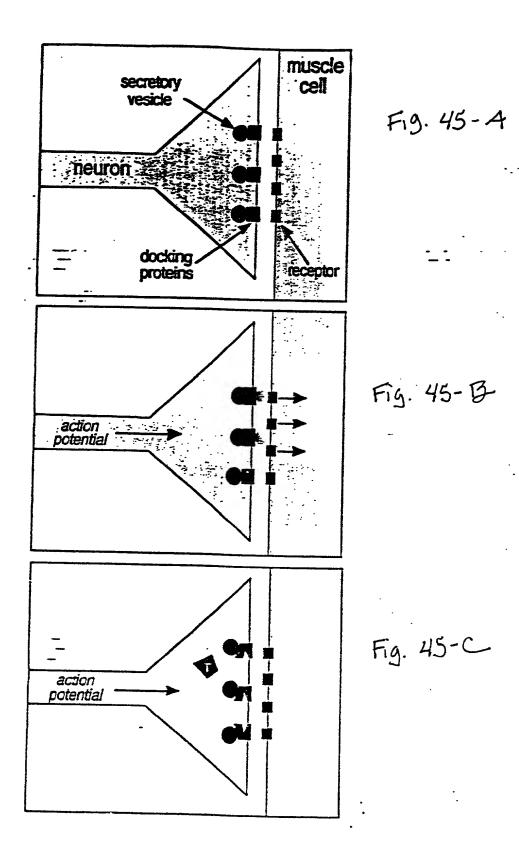
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Electronic Tongue Biological Sample Acquisition Prototype 6/2/99









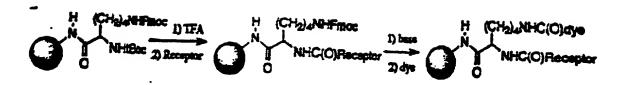
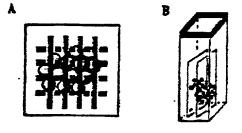


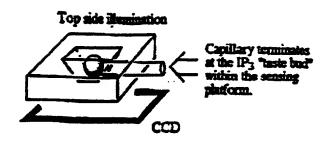
FIG. 45 D

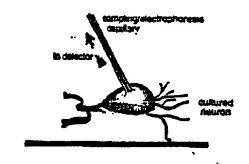


F16.46

F16. 47

F16. 48





F16.49

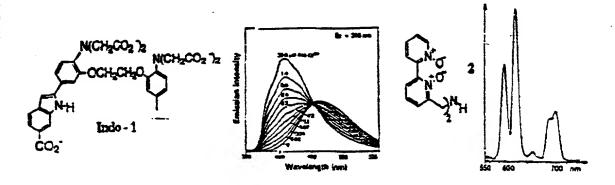


FIG. 50

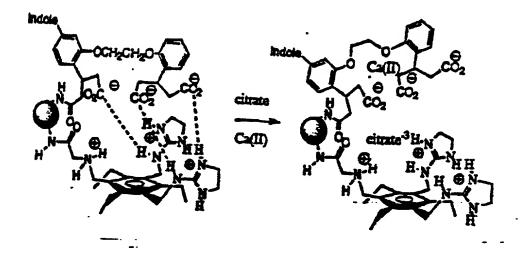
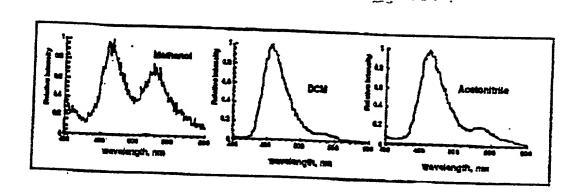
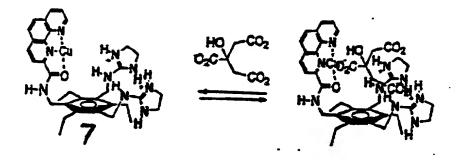


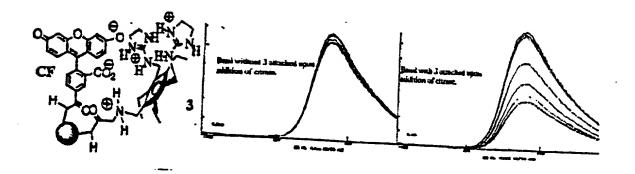
FIG. 51



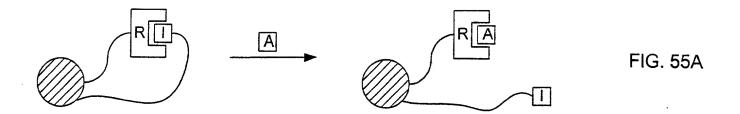
F16. 52

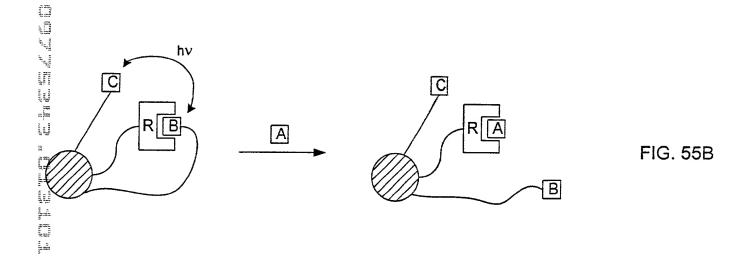


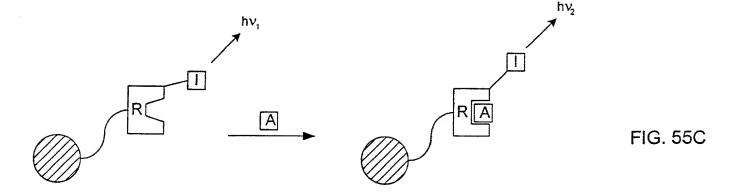
F16. 53

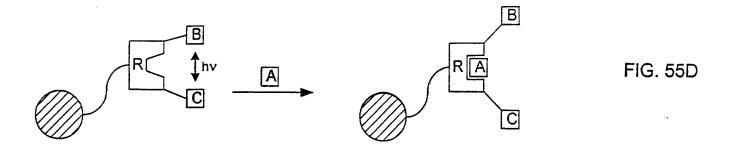


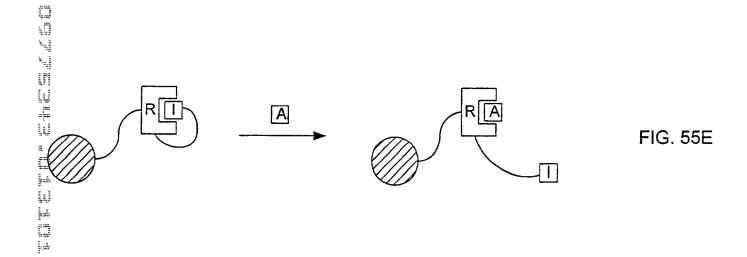
F15.54

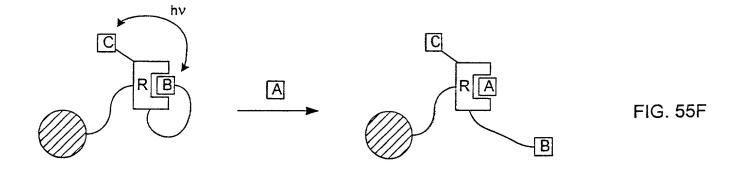


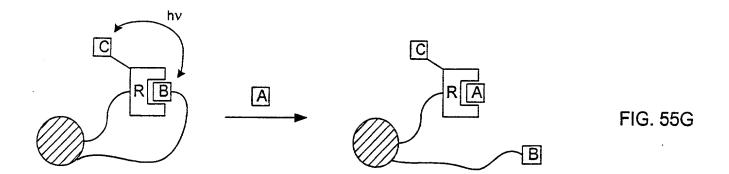


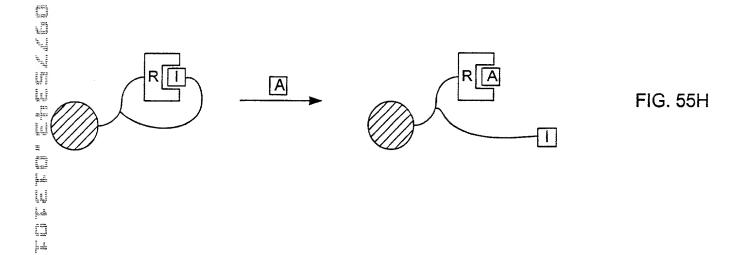


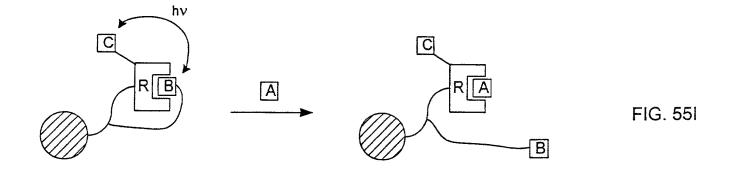












Fluorescein

FIG. 56

1

FIG. 57

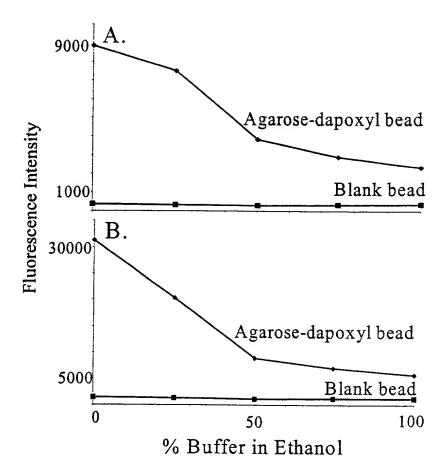


FIG. 58

FIG. 59

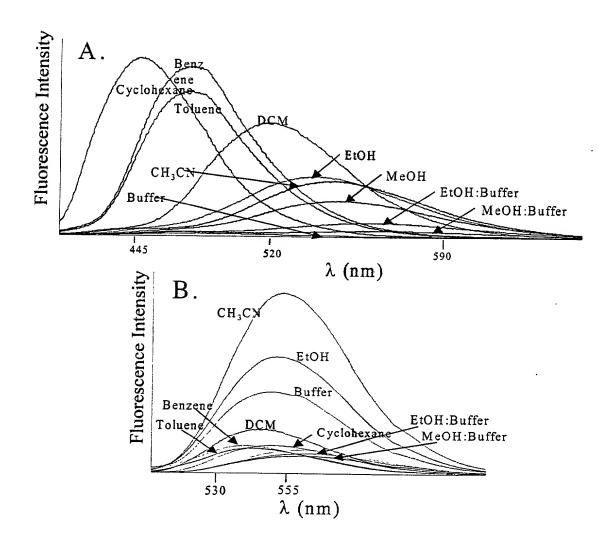
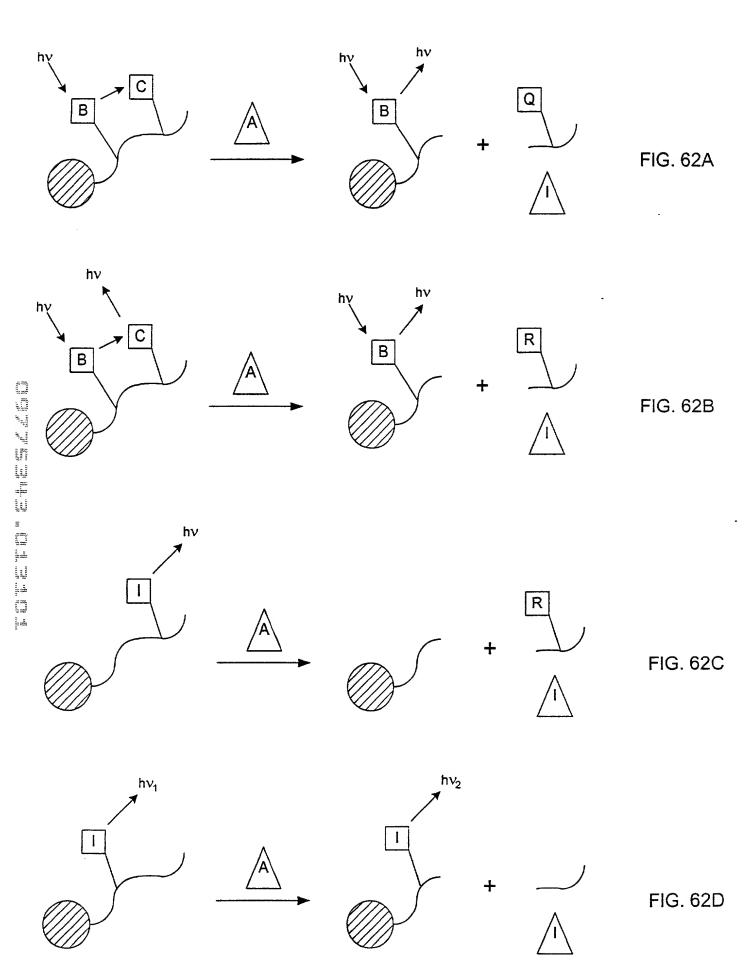


FIG. 60



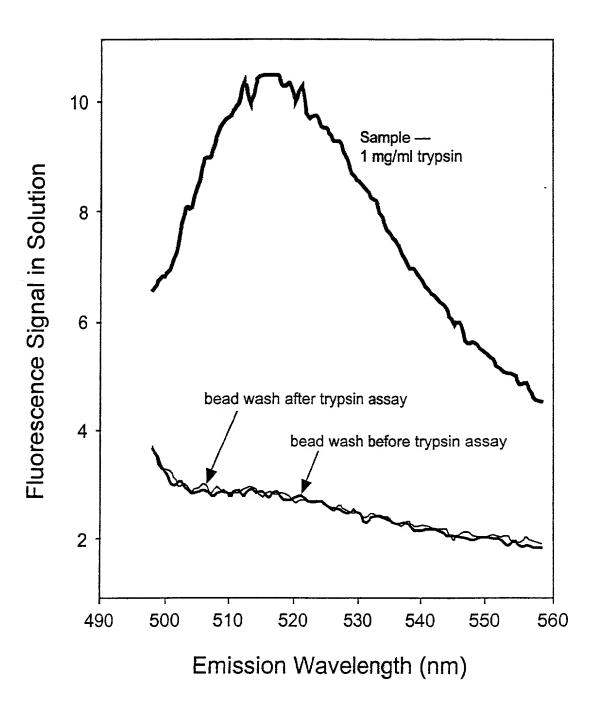


FIG. 63

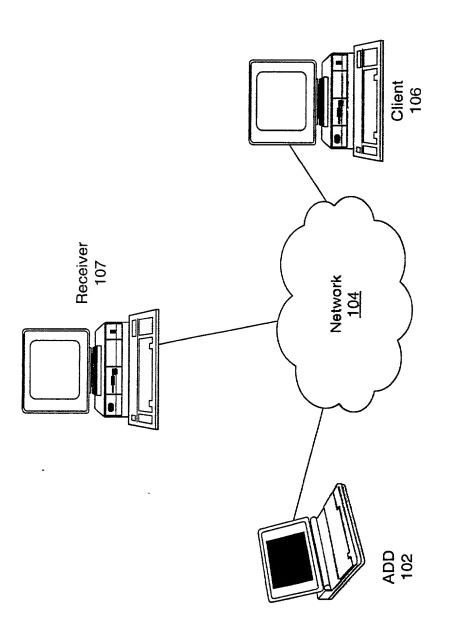


FIG. 🐠 64

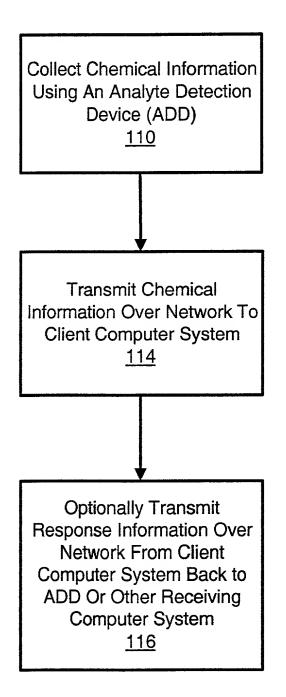


FIG. 588 65

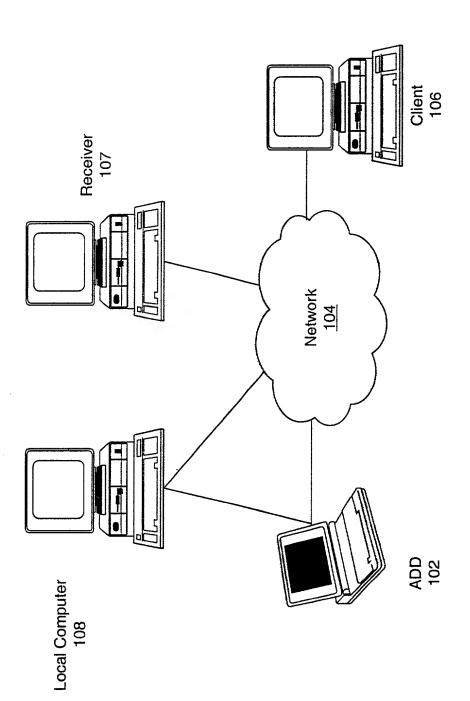


FIG. 🕬 66

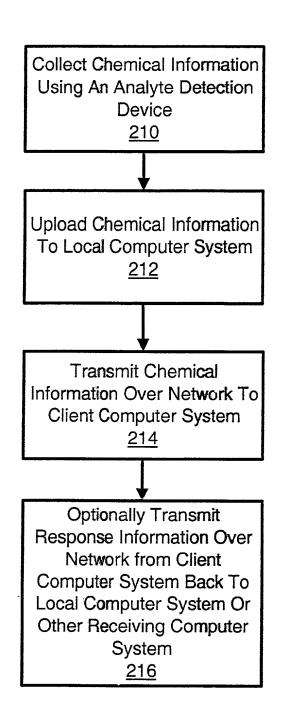


FIG. 67

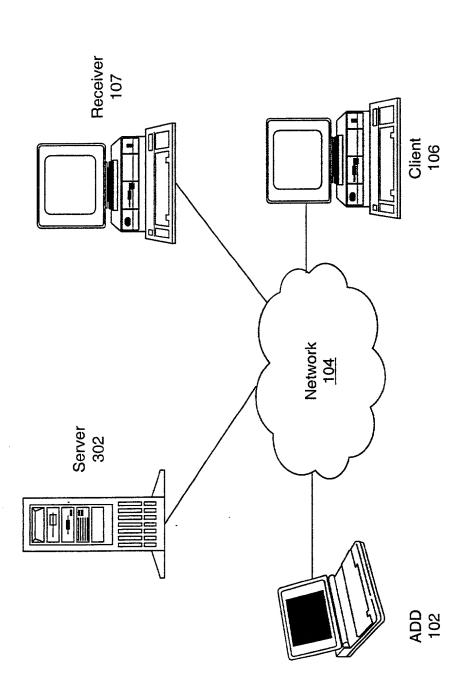


FIG. 1468

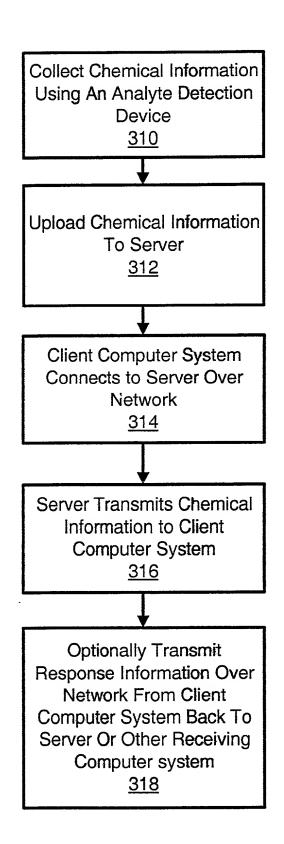


FIG. 5 69

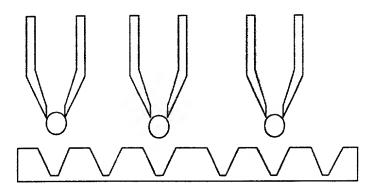


FIG. 200 704

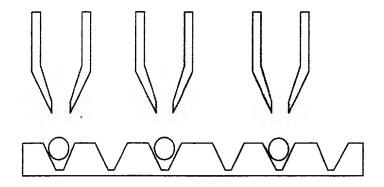


FIG. 578 70B

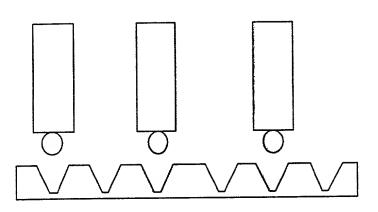


FIG. 58% 7/A

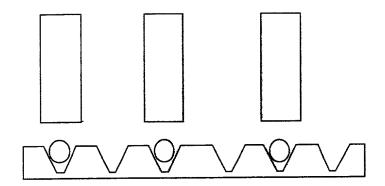


FIG. 568 713

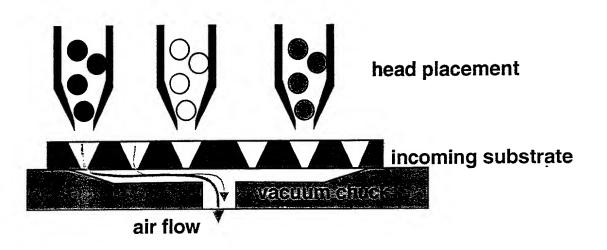


FIG. 3% 72 A

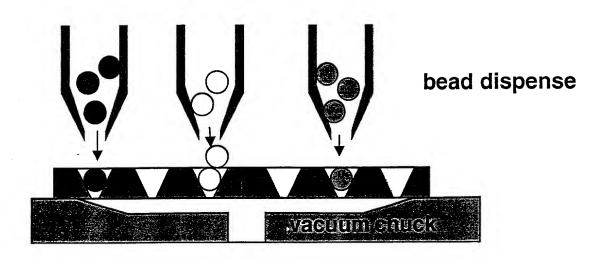


FIG. 500 72B

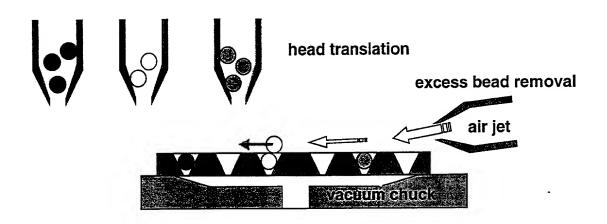


FIG. 592 72 C

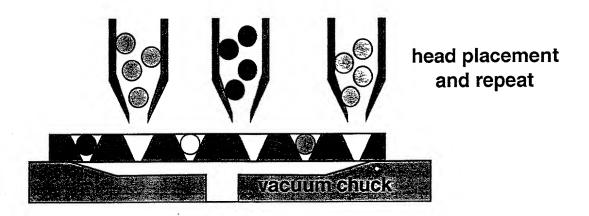
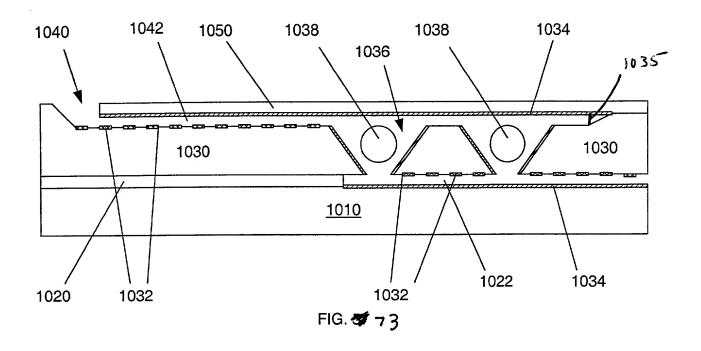
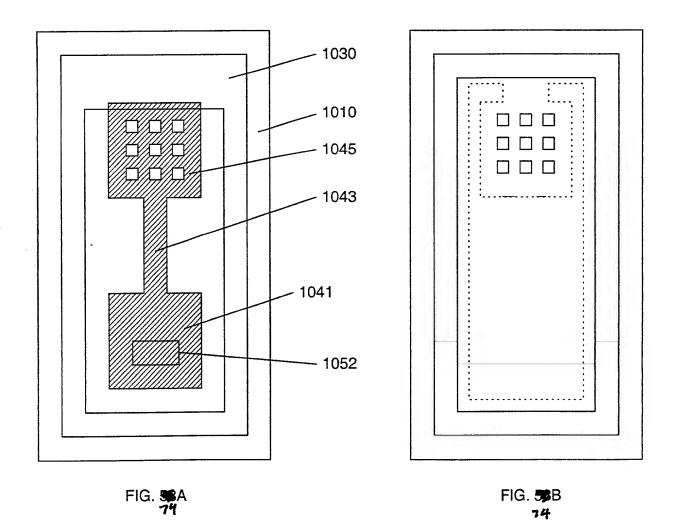
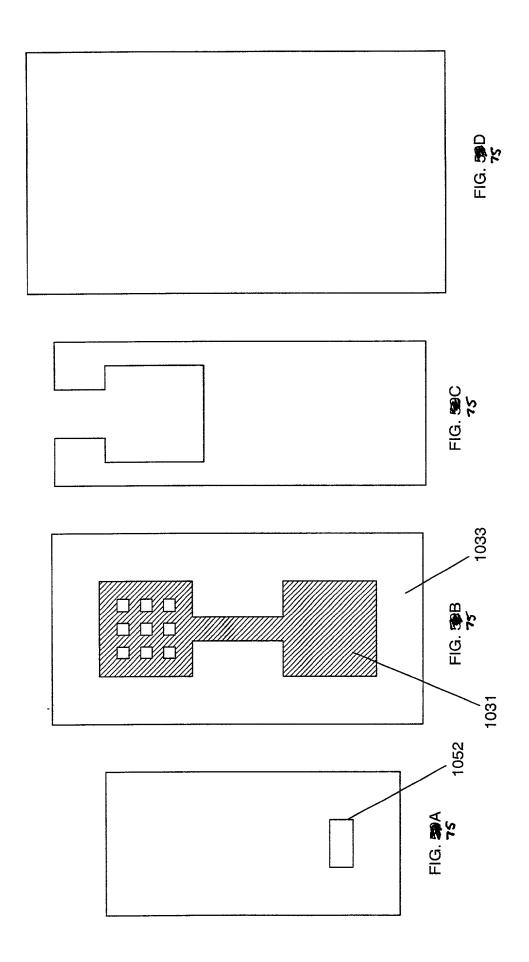


FIG. 590 72)







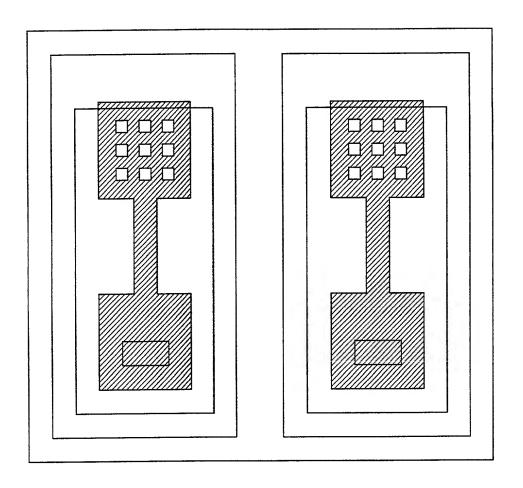
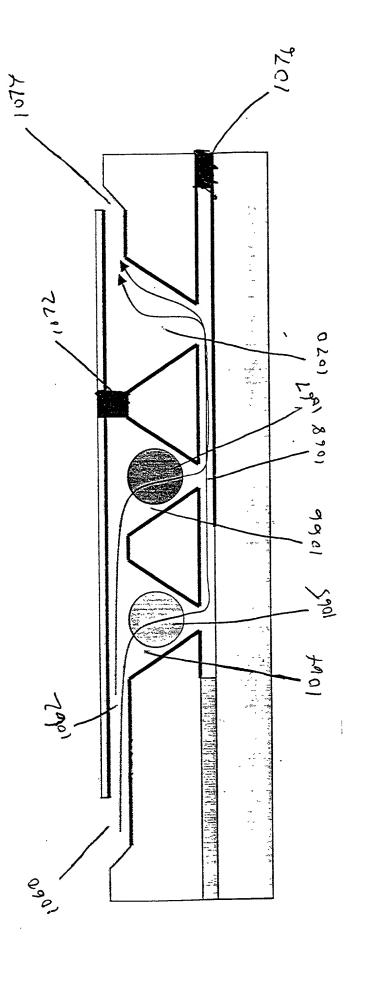
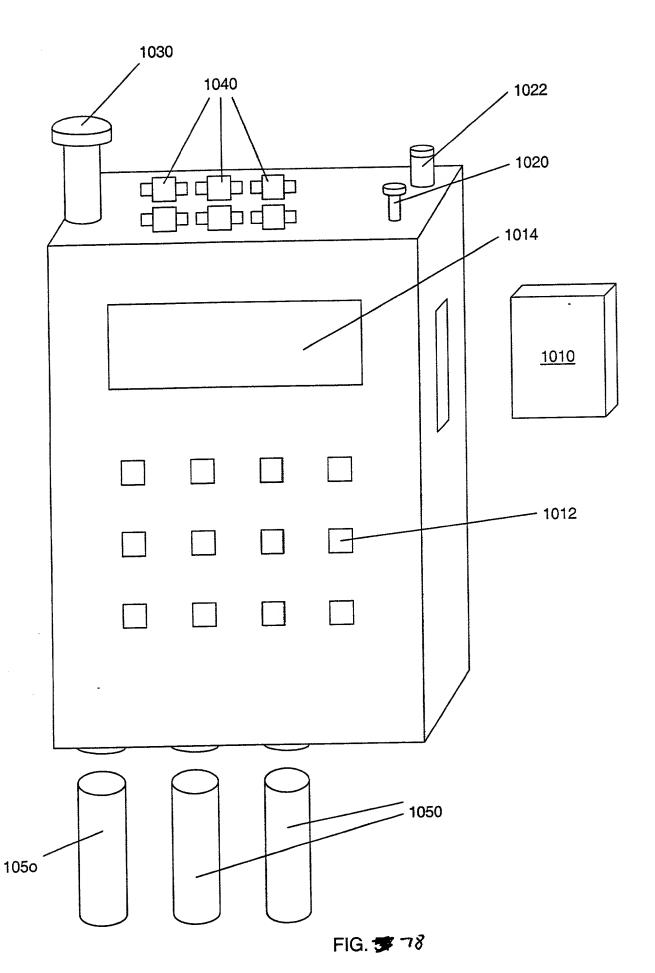


FIG. 8976



F16.77



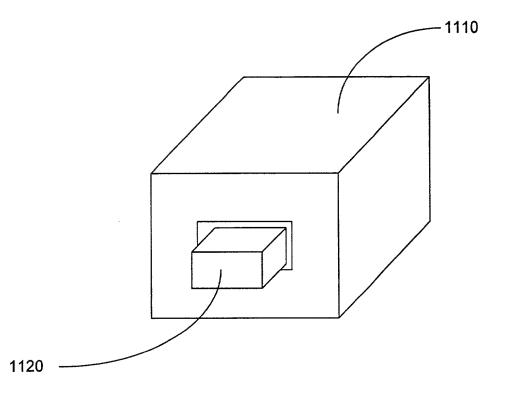
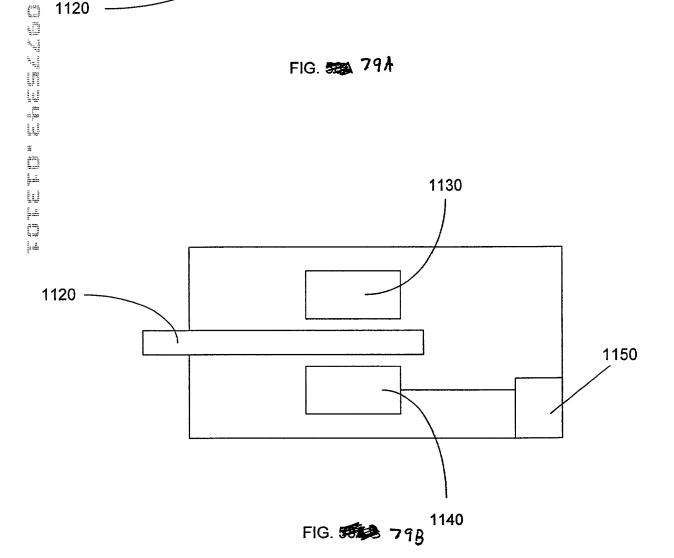
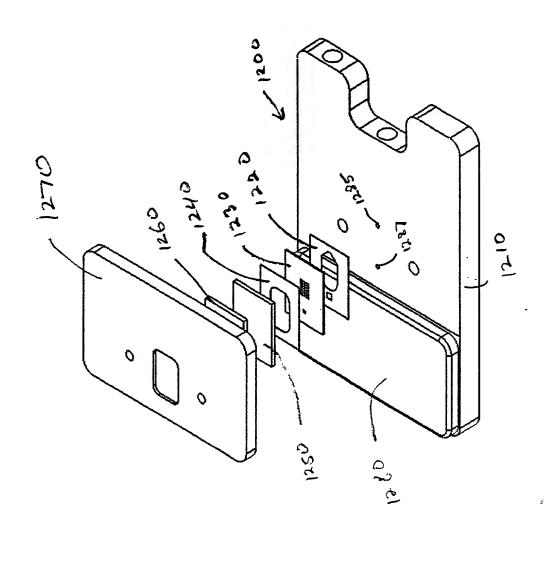
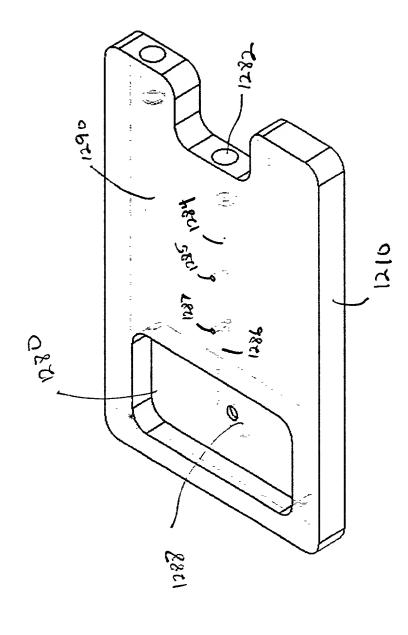


FIG. 353 79 A





116 80



F16,8

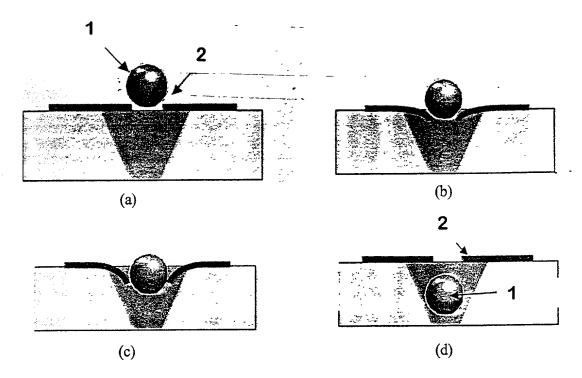


Figure \$ 82